

Baomain THC30A

Baomain Digital LCD Power Weekly Programmable Timer (THC30A, 220VAC) Instruction Manual

Model: THC30A

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and programming of your Baomain Digital LCD Power Weekly Programmable Timer, model THC30A. This device is designed to automatically control the power supply to electrical appliances based on pre-set schedules, offering convenience and energy efficiency. Please read this manual thoroughly before use to ensure proper function and safety.



Image: The Baomain THC30A Digital LCD Power Weekly Programmable Timer with its protective cover open, revealing the LCD screen and control buttons.

2. SAFETY INFORMATION

- **Electrical Hazard:** Installation and wiring should only be performed by a qualified electrician or competent person. Ensure power is disconnected before any installation or maintenance.
- **Voltage Compatibility:** Verify that the operating voltage of the timer (AC 220V) matches your power supply. Incorrect voltage can damage the device and pose a safety risk.
- **Current Rating:** Do not exceed the maximum contact capacity of 30A. Overloading can lead to overheating and fire hazards.
- **Indoor Use Only:** This timer is designed for indoor use in dry environments. Avoid exposure to moisture, dust, or extreme

temperatures.

- **Secure Connections:** Ensure all wire connections are tight and secure to prevent loose contacts and potential electrical arcing.

3. PRODUCT OVERVIEW

The Baomain THC30A is a digital weekly programmable timer featuring an LCD display and multiple programming options. It is designed for DIN rail mounting.

3.1 Key Features

- Contact Capacity: 30A
- Operating Voltage: AC 220V
- Up to 32 ON & 32 OFF repeat programs
- 18 times pulse programs
- Manual ON/OFF control
- Power reserve time: 3 years (internal lithium battery, non-rechargeable)
- Countdown function: 1s-99Min. 59s
- Pulse function: 1s ~ 59Min. 59s
- LCD display for clear programming and status indication

3.2 Package Contents

- 1 x Baomain Digital LCD Power Weekly Programmable Timer (THC30A)
- 1 x Instruction Manual

3.3 Product Dimensions

The timer measures approximately 86 x 35 x 65mm / 3.39" x 1.38" x 2.56" (LxWxH).

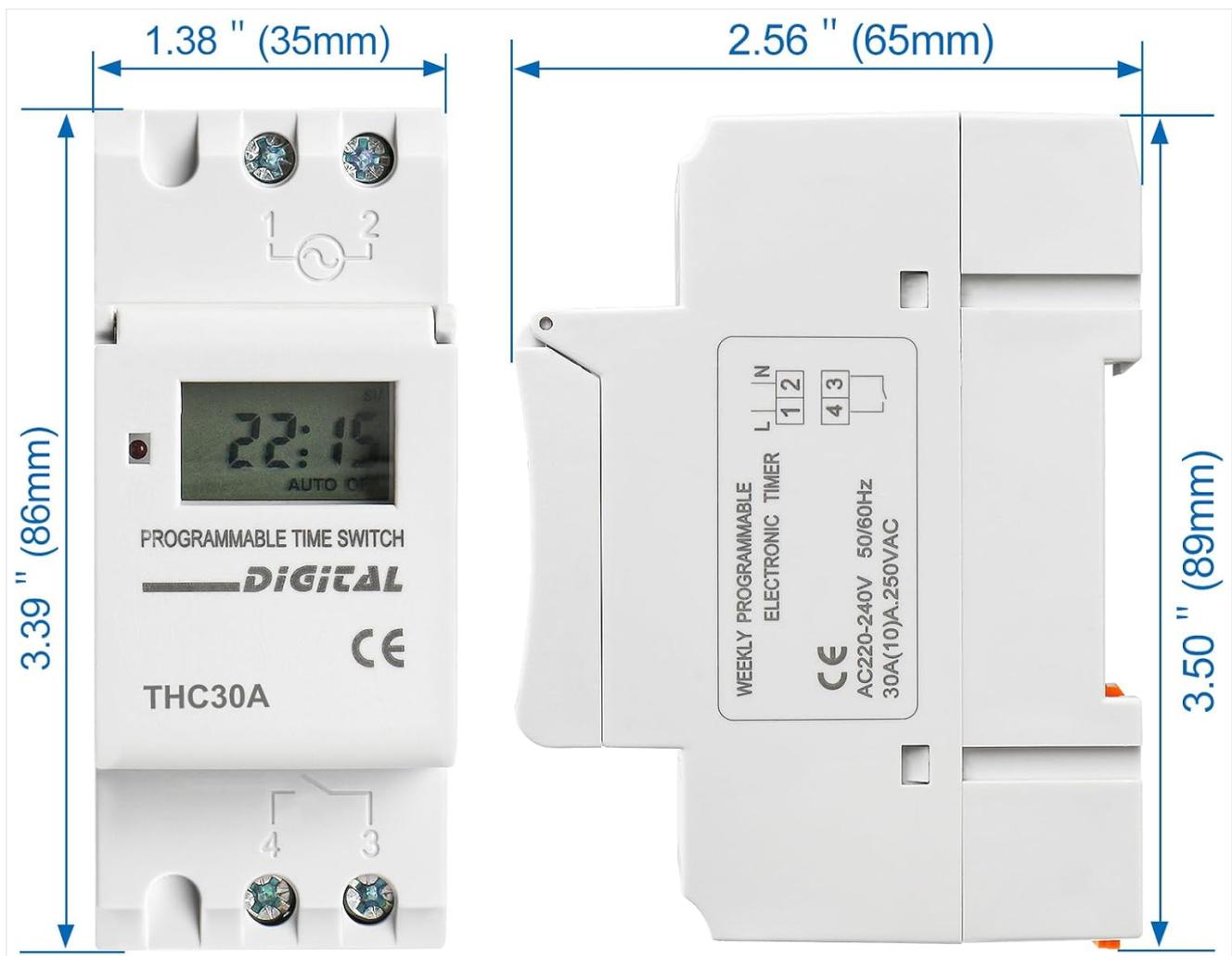


Image: Front and side view of the Baomain THC30A timer with dimensions labeled in millimeters and inches.

4. SETUP AND INSTALLATION

Before installation, ensure the main power supply is turned off to prevent electrical shock. This timer is designed for DIN rail mounting.

4.1 Wiring Diagram

Connect the timer according to the following wiring diagram. Terminals 1 and 2 are for power input (AC 220V). Terminals 3 and 4 are for the load output. Ensure correct polarity and secure connections.

Wiring Image

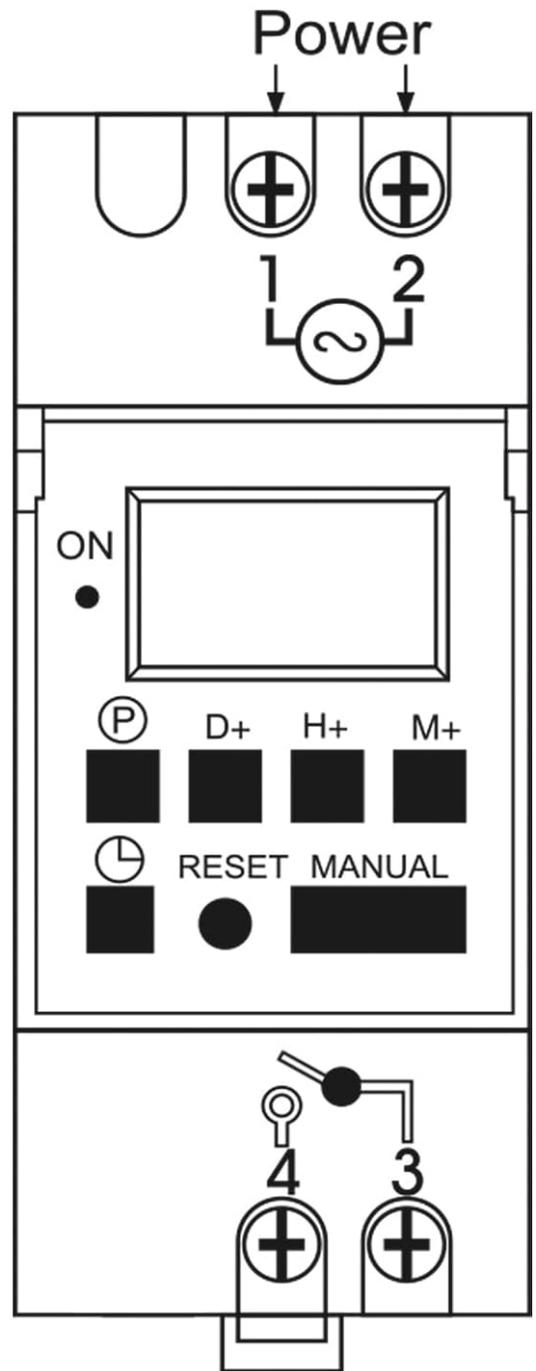


Image: A diagram illustrating the wiring connections for the Baomain THC30A timer, showing power input (1, 2) and load output (3, 4).

Important: Double-check that the input voltage (AC 220V) is correct for your device and electrical system before connecting. Incorrect voltage can cause severe damage.

5. OPERATING INSTRUCTIONS

Familiarize yourself with the buttons on the timer: P (Program), D+ (Day+), H+ (Hour+), M+ (Minute+), Reset, and Manual. The clock button (circular icon) is used to exit programming modes and save settings.

5.1 Initial Setup: Reset and Set Current Time

1. **Reset:** Upon first use or if the display is erratic, press the **RESET** button using a pointed object (e.g., a pen tip). This clears all settings and restores the timer to its default state (00:00).
2. **Set Current Time:**
 - o Press the **Clock** button.
 - o Press **D+** to set the current day of the week.

- o Press **H+** to set the current hour (1-24 hours).
- o Press **M+** to set the current minute (1-60 minutes).
- o Press the **Clock** button again to save the time and exit.

Your browser does not support the video tag.

Video: An official Baomain video demonstrating the basic operation and programming of the Digital LCD Power Weekly Programmable Timer (THC30A).

5.2 Programming ON/OFF Times (Weekly Program)

The timer supports up to 32 ON and 32 OFF programs. Follow these steps:

Step	Key	Programming
1	Press P	Set 1st ON time (display "1 on")
2	Press H+/M+	Set hours and minutes
3	Press D+	Select days of week (e.g., MO-FR, MO-SA, SA SU, MO-WE, TH-SA, MO WE FR, TU TH SA, different everyday). If for every day, do not press this key.
4	Press P	Set 1st OFF time (display "1 off")
5	Press H+/M+	Set hours and minutes for turn off time
6	Press D+	If you want the same set for every day, you do not need to press this key.
7	Repeat step 1-6	Set 2nd to 32nd ON/OFF times
8	Press Clock	End programming

*Note: If you do not need all 32 ON/OFF settings, press the **Clock** button to end programming.*

5.3 Pulse Setting

The timer can be programmed for pulse operations (up to 18 times). A "P" will display at the bottom-left corner of the LCD when in pulse mode.

Step	Key	Programming
1	Press H+ & M+ simultaneously	Enter pulse setting mode
2	Press Clock & H+/M+ simultaneously	Set pulse time range (1 sec - 59 min 59 sec)
3	Press Clock & MANUAL simultaneously	Confirm pulse time range
4	Press P	Enter setting 1 ON time (display "1 on")
5	Press H+/M+	Set ON time
6	Press D+	Select days of week. If for every day, do not press this key.
7	Repeat step 4-6	Set 2nd to 18th ON times
8	Press Clock	End programming
9	Press H+ & M+ simultaneously	Exit pulse setting mode

*Note: If you do not need all 18 pulse settings, press the **Clock** button to end programming.*

5.4 Countdown Setting

The timer includes a countdown function. A "d" will display at the bottom-left corner of the LCD when in countdown mode.

Step	Key	Programming
1	Press P & Clock simultaneously	Enter countdown setting mode
2	Press Clock & H+/M+ simultaneously	Set minutes/seconds for countdown
3	Press MANUAL	Start countdown
4	Press P	Return to start countdown (reset countdown value)
5	Press P & Clock simultaneously	Exit countdown setting mode

5.5 Auto Time Error Correction (Weekly)

This function allows for weekly automatic time correction. "7d" will display at the bottom-left corner of the LCD when in this mode.

Step	Key	Programming
1	Press P & MANUAL simultaneously	Enter auto time error correction setting mode
2	Press D+	Set correction: -30 sec or +30 sec
3	Press Clock	Confirm and save setting

5.6 Manual ON/OFF Control

Press the **MANUAL** button to cycle through ON, AUTO OFF, and OFF modes. This allows for temporary override of programmed settings without deleting them.

5.7 General Programming Notes

- Time setting should correspond to the time sequence; incorrect sequences may lead to unexpected operation.
- The system will quit automatically if there's no operation within 10 seconds. Any unsaved data will be lost.
- Full screen display indicates the end of programming.
- Functions 3, 4, 5 (Pulse, Countdown, Auto Time Error Correction) cannot be set simultaneously.

6. MAINTENANCE

- **Cleaning:** Wipe the timer with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery:** The timer contains an internal, non-rechargeable lithium battery for power reserve, which maintains settings during power outages for up to 3 years. This battery is not user-replaceable. If the display becomes blank or settings are lost frequently, the battery may need professional service.
- **Storage:** If storing the timer for an extended period, keep it in a dry, cool place away from direct sunlight.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or erratic.	No power supply; internal battery depleted.	Check power connections. Press the RESET button. If the issue persists, the internal battery may need service.

Problem	Possible Cause	Solution
Programs do not execute.	Incorrect time setting; timer in MANUAL mode; programming error.	Ensure current time is set correctly. Check if the timer is in AUTO mode (not ON or OFF manually). Review programming steps carefully. Press RESET and reprogram if necessary.
Timer does not respond to button presses.	Temporary software glitch.	Press the RESET button.
Output is always ON or OFF.	Timer in MANUAL override mode.	Press the MANUAL button until "AUTO ON" or "AUTO OFF" is displayed, depending on your desired automatic operation.

8. SPECIFICATIONS

Feature	Detail
Model Number	THC30A
Operating Voltage	AC 220V
Contact Capacity	30A
Frequency	50/60Hz
ON/OFF Operations	32 ON & 32 OFF programs
Pulse Programs	18 times
Countdown Range	1 second - 99 minutes 59 seconds
Pulse Range	1 second - 59 minutes 59 seconds
Power Reserve	3 years (lithium battery, non-rechargeable)
Dimensions (LxWxH)	86 x 35 x 65mm / 3.39" x 1.38" x 2.56"
Weight	150g / 5.3 ounces
Material	Plastic
Color	Gray

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or contact Baomain customer service directly. Keep your purchase receipt as proof of purchase.